

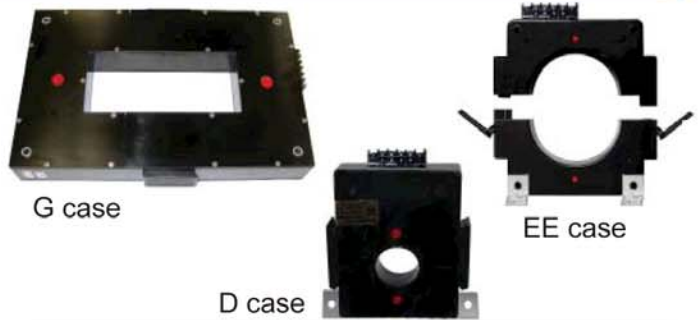
HALL-EFFECT DC CURRENT TRANSDUCER MODEL CTH -

DESCRIPTION

The CTH series current transducers are Hall-effect current sensors with signal conditioning and an output amplifier in a single compact package. All models are supplied in a split-core configuration for ease of installation.

Hall-effect current measurement is a non-contact technique that measures the magnetizing effects of current flowing in a conductor.

Advantages of this technique include high electrical isolation between the measured conductor and transducer output, high over-range capability and fast response to input changes.



FEATURES

5 YEAR WARRANTY



- Accuracy = $\pm 0.5\%$ F.S.
- Sensor, signal conditioning and amplifier in one package
- Output is proportional in direction and magnitude to current flow through the window. (4-20mA output is unidirectional 4-12-20 output is bi-directional)
- Split-core configuration
- Replaces shunts. No insertion loss.

Power supply available by using the PS-4753-5 or -6.

MODEL SELECTION

ORDERING INFORMATION

Example: Input 0-1000A
Output 0-10V

CTH/1000A/10/SC/24Vdc Type G

ORDERING INFORMATION

Example: Input 200Adc
Output 4-20mA

CTH/200A/4-20/SC/24Vdc Type D

ORDERING INFORMATION

Example: Input 800Adc
Output 0-5V

CTH/800A/5/SC/24Vdc Type EE

ORDERING INFORMATION

Example: Input ± 0 -500Adc
Bi-Directional Output 4-12-20mA
CTH/500A/4-12-20/SC/24Vdc Type G

SPECIFICATIONS

INPUT

Current See Table
Over-current without damage 10 X rating

OUTPUT

Load 4-20mA models 0-500 Ω
5 and 10V models $\geq 2k\Omega$
Response Time (to 90%) 500 μ s, typical

INSTRUMENT POWER

Voltage 24Vdc/ac $\pm 10\%$
Current 25mA + output current

DIELECTRIC TEST

Bare Conductor thru Window to Output 3750Vac

ACCURACY and LINEARITY $\pm 0.5\%$ F.S.

TEMPERATURE and ENVIRONMENTAL

Operating Range 0 to +40 $^{\circ}$ C
Extended Range (add suffix "T") -40 $^{\circ}$ to +60 $^{\circ}$ C
Temperature Effect $\pm 0.025\%$ / $^{\circ}$ C
Humidity 0-95%, non-condensing

PHYSICAL

Weight D size ≤ 0.75 lb., EE size ≤ 4.5 lb.
Connections 6-32 screw terminals

Powertek

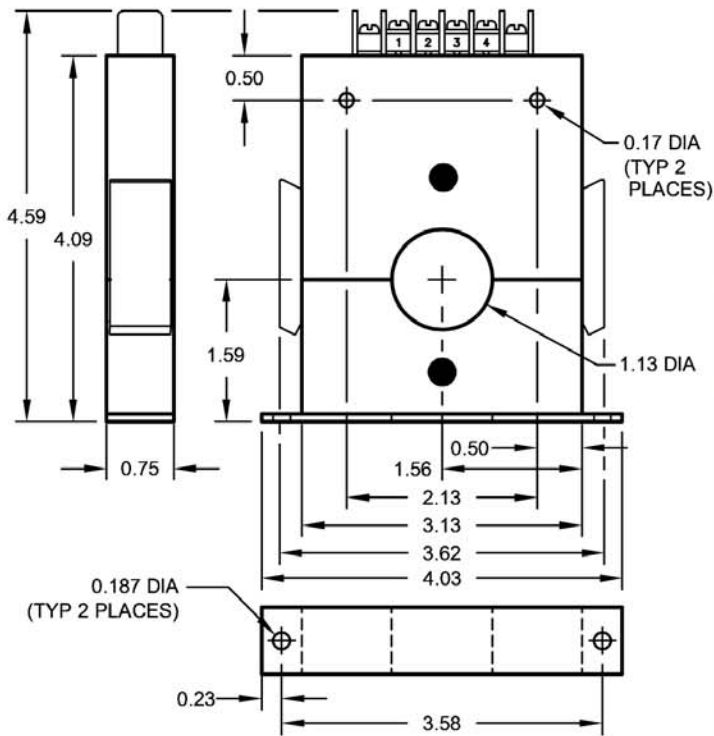
Powertek UK 19 Cornwallis Road Bilton, Rugby CV22 7HL UK
Tel: 01788 519911 Fax: 0870 0940135 Int'l Fax: +44 870 0940135
Email: info@powertekuk.com Website: www.powertekuk.com

Powertek US Inc. 7 3rd Street Holbrook, NY 11741
Tel: +1 631 615 6279 Fax: +1 973-273-5893
info@powertekus.com Website: www.powertekus.com

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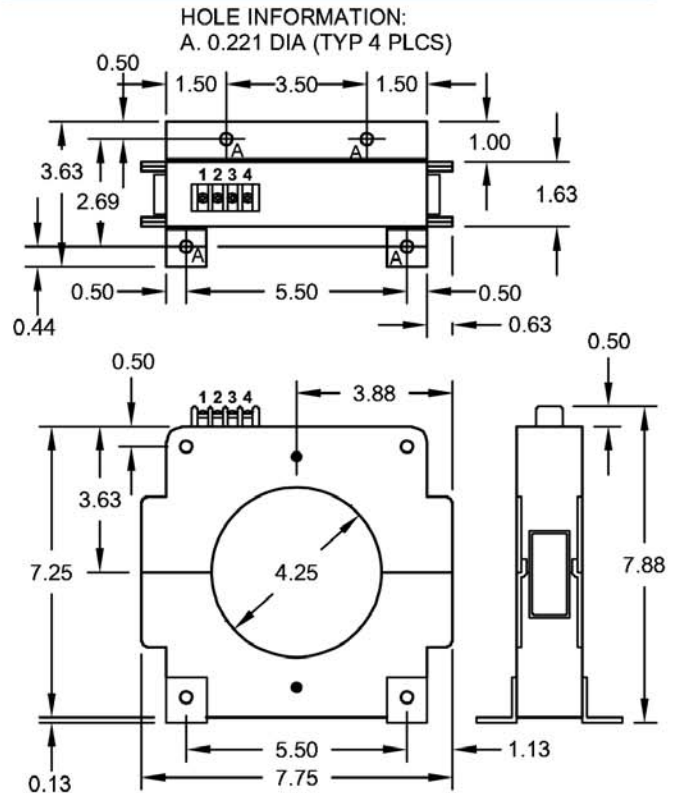
ALL DIMENSIONS ARE IN INCHES. TOLERANCE IS ± 0.030 " UNLESS OTHERWISE NOTED.

CASE DIMENSIONS D



Dwg.# 0902-00948-B Rev A

CASE DIMENSIONS EE

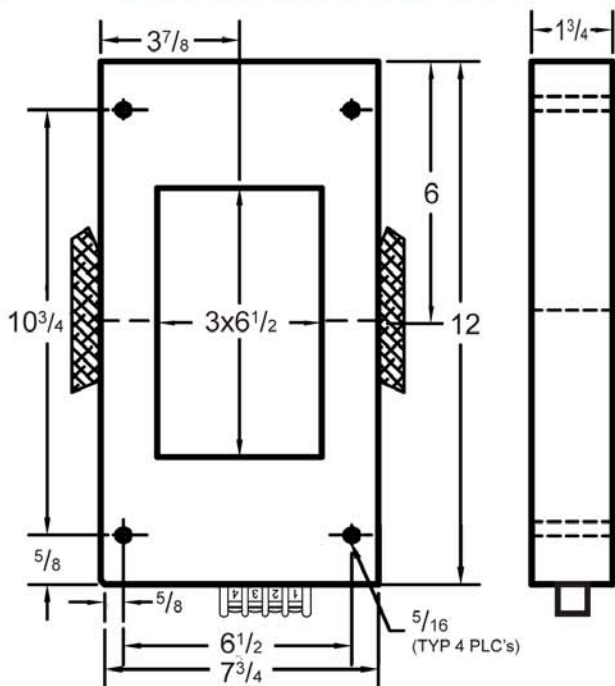


Dwg.# 0902-00955-B Rev D

MOUNTING INSTRUCTIONS

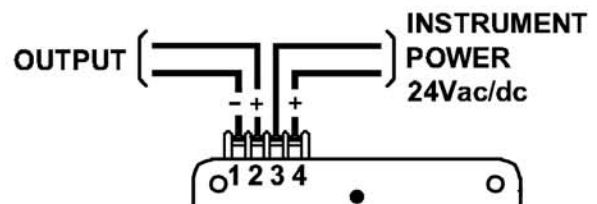
Unit must be installed in a vertical position as shown. The conductors through the window and the wires attached to the terminal strips must not apply any stress to the latches in any direction.

CASE DIMENSIONS G



Dwg.# 0902-00438-B Rev A (mod.) & Dwg.# 0902-00600-B Rev A (mod.)

CONNECTIONS



TERMINAL IDENTIFICATION	
Terminal 1 (-)	Output
Terminal 2 (+)	
Terminal 3 (-)	Instrument Power
Terminal 4 (+)	

"Red dot" side of CTL must face positive supply.
Power supply available by using the PS-4753-5 or -6.